_				
	104	106	108	710
	Commonality	Modularity	Standards Based	RMT
	 Physical Commonality (Within the system) 	• Physical Modularity 718	· Open Systems Orientation	· Reliability 132
7	HW Commonality	· Ease of system element upgrade	· Interface Standards	Tolerance
112	 Number of Unique LRUs 	 Lines of modified code 	 # of Interface Standards/# of 	• % of mission critical functions with single
	 Number of Unique Fasteners 	 Amount of labour hours for system rework 	Interfaces	points of failure
	Number of Unique Cables	 Ease of operating system upgrade 	 Multiple Vendors (Greater than 5) 	% of safety critical functions with single
	Number of Unique Standards Implemented	 Lines of modified code 	Exist for Products Based on	points of failure
	• SW Commonality	 Amount of labour hours for system rework 	Standards	Critical Points of Delicateness (System
	 Number of Unique SW Packages 	• Functional Modularity 720	 Multiple Business Domains 	Loading)
	Implemented	· Ease of adding new functionality	Apply/Use Standard (Aerospace,	% Processor Loading
	• Number of Languages	 Lines of modified code 	Medical, Telecommunications)	Memory Loading
	 Number of Compilers 	 Amount of labour hours for system rework 	Standard Maturity	How critical is this?
	 Average Number of SW Instantiations 	 Ease of upgrade existing functionality 	Hardware Standards	% Network Loading
	 Number of Unique Standards Implemented 	 Lines of modified code 	# of Form Factors/# of LRUs	How critical is this?
	 Physical Familiarity (From other systems) 	 Amount of labour hours for system rework 	 Multiple Vendors (Greater than 5) 	· Maintainability / 134
114	• % Vendors Known	· Orthogonality 722	Exist for Products Based on] }
-	% Subcontractors Known	 Are functional requirements fragmented 	Standards	Maximum Fault Group Size
	* % HVV lechnology Known	across multiple processing elements and	Multiple Business Domains	Is system operational during maintenance?
	% SVV lechnology Known	interfaces?	Apply/Use Standard (Aerospace,	Accessibility
	• Operational Commonality	 Are there throughput requirements across 	Medical, Telecommunications)	 Are there space restrictions?
146	Number of the second se	Interfaces?	 Standard Maturity 	• Are there special tool requirements?
2	• Nutriber of Unique Skill Codes Required	sbec	Software Standards	 Are there special skill requirements?
	Estimated Operational Training Lime - Initial	· Abstraction 724	 # of proprietary & unique operating 	• Testability 72 136
	Defeate Cherational Talling Little	 Does the system architecture provide and 	systems	 # of LRUs covered by BIT (BIT Coverage)
	Refresh from Previous System	Ξ	 # of non-std databases 	 Reproducibility of Errors
	• Estimated Maintenance Training Time -	• Interfaces 726	 # of proprietary middle-ware 	 Logging/Recording Capability
		 # of Unique Interfaces per System Element 	•	 Create system state at time of system
	Estimated Maintenance Training Time -	 # of Different Networking Protocols 	· Consistency Orientation 2 130	failure?
	Refresh from Previous System	 Explicit versus implicit interfaces 	 Common Guidelines for 	Online Testing
		 Does the architecture involve implicit 	Implementing Diagnostics and	• Is system operational during external
		interfaces?	PM/FL	testing?
		 # of Cables in the System 	 Common Guidelines for 	 Ease of access to external testpoints?
			Implementing OMI	 Automated Input/Stimulation Insertion

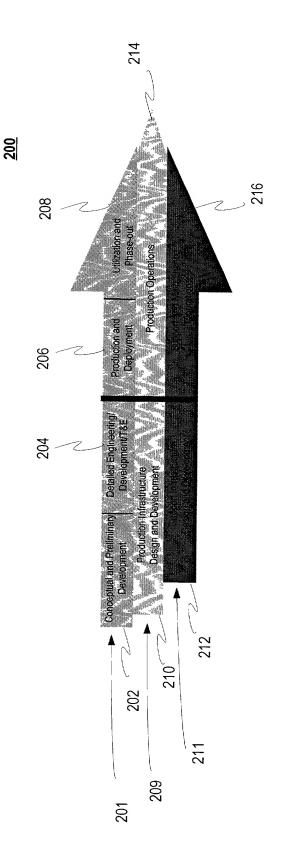
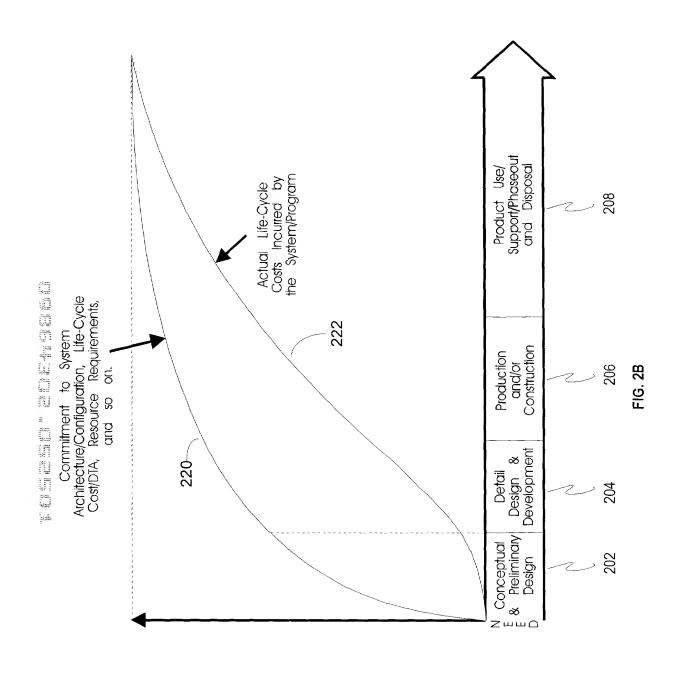


FIG. 2A



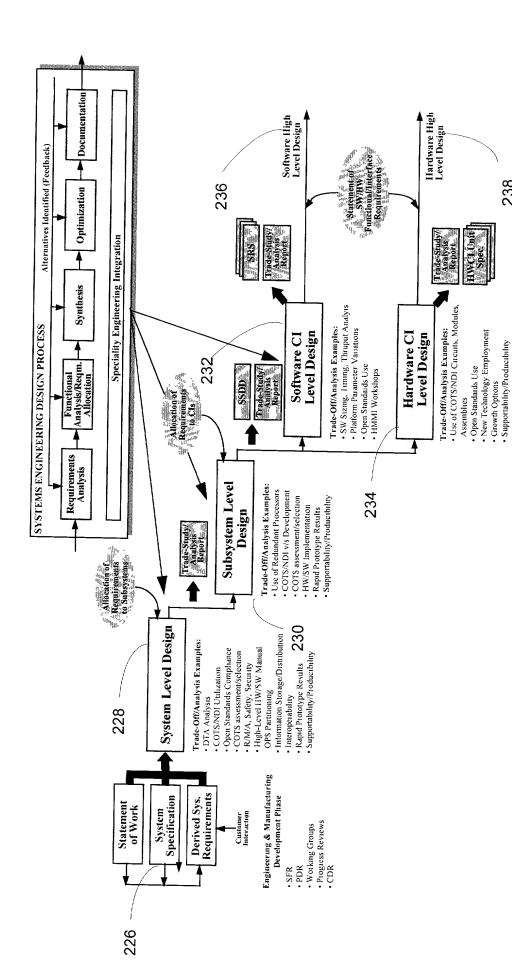


FIG. 2C

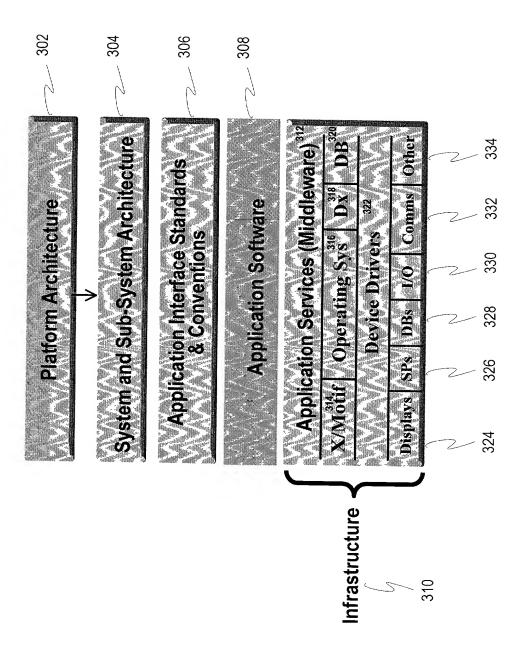


FIG. 3

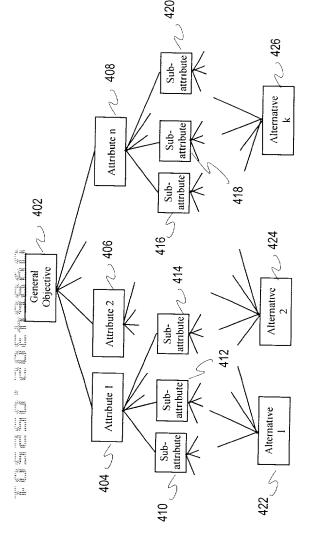


FIG. 4

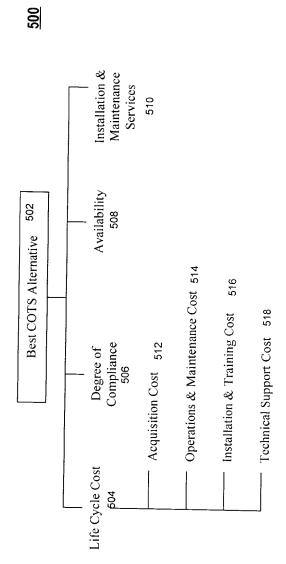


FIG. 5

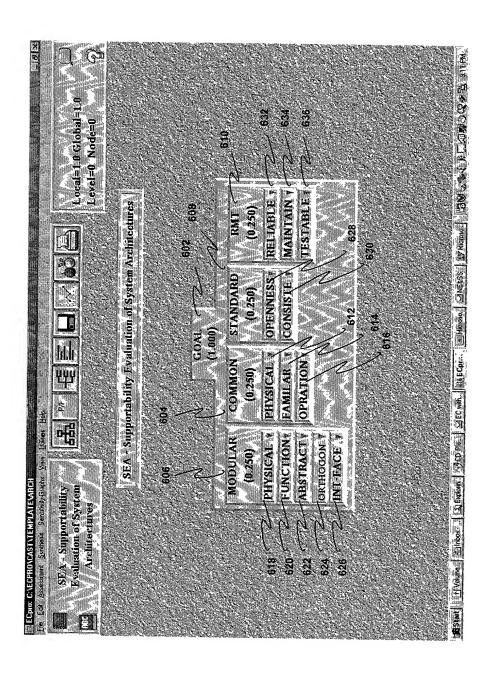


FIG. 6A

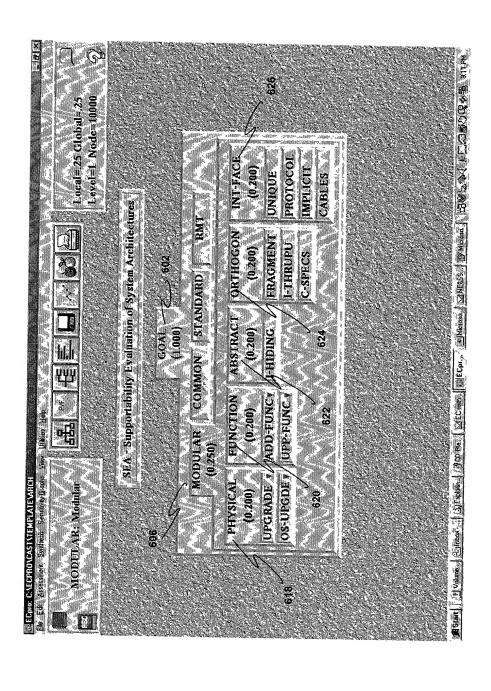


FIG. 6B

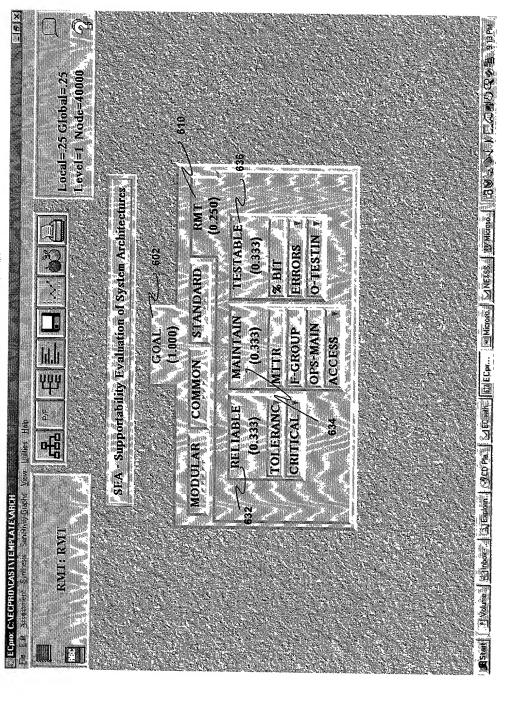


FIG. 6C

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